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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/535,158	03/24/2000	Katsuhiro Aoki	0557-49331-2	1887
22850	7590 11/12/2003	EXAMINER		INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			GRAINGER, QUA	ANA MASHELL
	RIA, VA 22314		ART UNIT	PAPER NUMBER
	,		2852	

DATE MAILED: 11/12/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	19/535158	LAOKIOTAL.				
Office Action Summary	Examiner	Art Unit				
	Quana Grainger	2852				
The MAILING DATE of this communication a	ppears on the cover sheet with	the correspondence address				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). Status	1.136(a). In no event, however, may a repireply within the statutory minimum of thirty (not will apply and will expire SIX (6) MONTHUTE, cause the application to become ABAI alling date of this communication, even if time	ly be timely filed 30) days will be considered timely. 4S from the mailing date of this communication.				
1) Responsive to communication(s) filed on _	·					
2a) This action is FINAL.	This action is FINAL 2000 This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	onding in the application.					
Claim(s) 1-13,15-27, 29 is/are pending in the application. 4a) Of the above claim(s) 1-11,15-25,29 is/are withdrawn from consideration.						
4a) Of the above claim(s) [-][DC3]L] Is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 12, 29	6) Claim(s) 12, 24 is/are rejected. 7) Claim(s) 13, 27 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
	estriction and/or closus. To quite					
Application Papers	miner.					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
ting the sequent that any objection to the drawing(s) be held in abeyance. See 37 GFR 1.05(a).						
Applicant may not request that any objection to the data of the da						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Briggity under 35 U.S.C. 66 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1 Certified copies of the priority documents have been received.						
2 Cartified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). application detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)						
The state of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for d	lomestic priority under 35 0.5.	0. 33 120 dilaror 12 11				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗹 Intervie	w Summary (PTO-413) Paper No(s). 20.				
1) Notice of References Cited (P10-692) 2) Notice of Draftsperson's Patent Drawing Review (PT0-3) Information Disclosure Statement(s) (PT0-1449) Pape	948) 5) Notice	of Informal Patent Application (P10-152) .				
TI C Patent and Trademark Office	orri e des Commons	Part of Paper No. 20				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 1.

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious at

the time the invention was made to a person having ordinary skill in the art to which said subject

matter pertains. Patentability shall not be negatived by the manner in which the invention was

made.

2. This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 12 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada et.

al. in view of the admitted prior art of record. Wada et al. teaches a latent image bearing member

1 having a potential thereon; a developing device 12, the developing device including, a

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conveyor member 2-3 configured to convey the one-component developer from a one-component developer supply anti to a developing region where pant of the developer-bearing member is closely spaced next to a part of the latent image bearing member 1, a thin layer forming, device 7 configured to form the one-component developer being conveyed on the conveyor member into a uniform thin layer having a height corresponding to 1 to 1.5 times the diameter of the toner particles of the one-component developer. The development region includes a gap between the conveyor surface portion and the opposed photoconductive surface portion that is equal to or less than about 150 micron.

Wada et al. also teaches as image forming apparatus comprising means for bearing a latent image including image areas and means for applying a developing bias voltage 10 to the means for conveying when the developing operation is performed; the thin layer forming device 7 configured to form the one-component developer on the conveyor member 1 into a uniform thin layer having a height corresponding to 1 to 1.5 times a diameter of the toner particles of the one-component developer (Figures 2-3; column 8). Wada et al. does not teach a two level developing method.

The admitted prior art of record teaches that a two level developing method is conventional (specification: page 1, lines 12-18). It would have been obvious to one having ordinary shill in the art at the time tile invention was made to use the teaching of Wada et al. with an image forming device using a developing method such as taught by the admitted prior art of record to also avoid agglomerates and obtain agglomerates free developer (column 1, line 65 column 2, line 5).

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Response to Arguments

Applicant continues to argues that the admitted prior art of record does not teach what

was known conventionally in the United states but what was known only in Japan. The admitted

prior art discusses what was known in a printing device and thus what is known wherever the

printing device is located and patented. Further, it is clearly not applicant's position that

applicant invented two level developing. The admitted prior art of record does not state that

applicant is referring only to what is known in Japan. The text communicates what is known to

one of ordinary skill in the printing art.

Applicant argues that the location of the teaching of the height of the developer and the

gap has not been indicated in the reference. The height of the developer is set by the depth of the

grooves and the regulating member and are thus 1/4 to 3 times the diameter of the developer and

is clearly discussed in column 8 and shown in Figures 2 or 3.

Applicant argues that the reference does not teach the toner layer has a height

corresponding to 1 to 1.5 times the diameter of the toner particles and this is not the same as the

gap spacing of the blade and the final layer thickness. The height of the developer is set by the

depth of the grooves and the regulating member and are thus 1/4 to 3 times the diameter of the

developer.

The claims remain rejected as discussed above.

Allowable Subject Matter

4. Claims 13 and 27 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

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claim and any intervening claims.

5. Claims 1-11, 14-25, and 28-29 are allowed.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Quana Grainger whose telephone number is 703-308-7616. The examiner

can normally be reached on weekdays between the hours of 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Arthur Grimley can be reached on 703-308-1373. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9318 for regular

communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-306-3431.

Quana Grainger

Primary Examiner

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QG

October 29, 2003